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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/249,642 02/12/99 VU

Q SONY-11300

EXAMINER

WM02/1211

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WILSON, J

ART UNIT

PAPER NUMBER

2612

DATE MAILED:

12/11/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/249,642

Applicant
Vu et al.

Examiner
Jacqueline Wilson

Group Art Unit
2712



☒ Responsive to communication(s) filed on Feb 12, 1999

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 1-25 is/are pending in the application

Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-25 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 19 recites the limitation "the controller" in line 1. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

The examiner has not supplied an art rejection due to the unclarity of Claim 19. Once this matter has been corrected, an action will be furnished.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

3. Claims 1, 2, 4, 6, 8, 10-13, 17, and 23-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Endsley et al. (US 5,841,471).

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Regarding Claim 1, Endsley et al.'471 teaches sending continuous data stream from a source device to a receiving device(see fig. 1). It is notoriously well known in the art that data streams consists of a plurality of video frames combined together, wherein each frame consists of a plurality of pixels. For example, the first frame has n units of pixels, and the second frame has an m units of pixels. Having pixels as a part of the video stream is inherent in the system of Endsley et al.'471 since isochronous video data (streams of video data) is sent to a remote device. Therefore, the limitations of forming x number of first data blocks (first frame) consisting of n units of data and y number of second data blocks (next sequential frame) consisting of m units being combined into a data stream is met.

Regarding Claim 2, Endsley et al.'471 teaches transmitting the data stream from the source device at a predetermined rate (col. 4, lines 7-12).

Regarding Claim 4, Endsley et al.'471 teaches the data stream is digital video data (see abstract).

Claim 6 is analyzed and discussed with respect to Claims 1 and 2. (See rejection of Claims 1 and 2 above.)

Claim 8 is analyzed and discussed with respect to Claim 2, with the further limitation of the data stream conforms to the standards of an IEEE 1394-1995 network. This limitation is discussed on col 6, lines 1-9.

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Claim 10 is analyzed and discussed with respect to Claim 8. (See rejection of Claim 8 above.)

Claim 11, Endsley et al.'471 teaches the source device and the receiving device are coupled together within a network (see fig. 1).

Claim 12 is analyzed and discussed with respect to Claim 8. (See rejection of Claim 8 above.)

Claim 13 is analyzed and discussed with respect to Claims 1 and 2. (See rejection of Claims 1 and 2 above.)

Regarding Claim 15, Endsley et al.'471 teaches an interface coupled to the controller and configured for connecting to a network (see fig. 1).

Claim 16 is analyzed and discussed with respect to Claim 8. (See rejection of Claim 8 above.)

Claim 17 is analyzed and discussed with respect to Claim 1 and 2. (See rejection of Claim 1 and 2 above.)

Claim 23 is analyzed and discussed with respect to Claim 8. (See rejection of Claim 8 above.)

Claim 24 is analyzed and discussed with respect to Claim 11. (See rejection of Claim 11 above.)

Claim 25 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

5. **Claims 1, 2, 4, 6, 8, 10-13, 17, and 23-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishii et al. (US 5,982,416).**

Regarding Claim 1, Ishii et al.'416 teaches transmitting information from a source device (fig. 1) comprising forming x number of first data blocks wherein each of the first data blocks contains n units of data (referred to as Isochronous packet containing n units of data; col. 5, lines 62+), forming y number of second data blocks wherein each of the second data blocks contains m units of data (referred to as Asynchronous packet containing m units) and combining x number and y number of blocks into a data stream (see figs. 7, 18, and 4, element 103).

Regarding Claim 2, Ishii et al.'416 teaches that transmitting multiplexed data is based on the specifications of the IEEE 1394 standard in which figure 7 shows the packet transition in a predetermined isochronous cycle. One having ordinary skill would recognize that the IEEE 1394 has a predefined transfer time in which figure 7 shows and is therefore inherent in the system of Ishii et al.'416.

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Regarding Claim 3, Ishii et al.'416 teaches evenly distributing the x number of first data amount the y number of second data blocks (see figs. 7 and 18).

Regarding Claim 4, Ishii et al.'416 teaches the data stream is digital video data (see abstract).

Claim 6 is analyzed and discussed with respect to Claims 1 and 2. (See rejection of Claims 1 and 2 above.)

Claim 8 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Claim 9 is analyzed and discussed with respect to Claim 3. (See rejection of Claim 3 above.)

Claim 10 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Regarding Claim 11, Ishii et al.'416 teaches the source device and the receiving device are coupled together within a network (see fig. 1).

Claim 12 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Claim 13 is analyzed and discussed with respect to Claims 1 and 2. (See rejection of Claims 1 and 2 above.)

Regarding Claim 15, Ishii et al.'416 inherently teaches an interface coupled to the controller and configured for connecting to a network (see figs. 1 and 7, element 106).

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Claim 16 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Claim 17 is analyzed and discussed with respect to Claim 13. (See rejection of Claim 13 above.)

Claim 23 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Claim 24 is analyzed and discussed with respect to Claim 11. (See rejection of Claim 11 above.)

Claim 25 is analyzed and discussed with respect to Claim 2. (See rejection of Claim 2 above.)

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 5, 7, 14, 18, and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endsley et al.'471.**

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Regarding Claim 5, Endsley et al.'471 fails to specifically disclose the n, m, x, and y values are integer values. However, one having ordinary skill would recognize that a plurality of frames and pixels are known to be natural numerical values (or as the applicant claims to be integer values). It is not practiced in the art to produce, for example 1.04 of a frame or 1.05 of a pixel. This would not create an adequate picture quality. Although not stated, it would have been obvious to produce frames in integer values as well as packet in integer values as shown in figure 7 to produce a discernable image for transmission. Therefore, it would have been to one having ordinary skill in the art to have the n, m, x, and y values to be integer values.

Claim 7 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Claim 14 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Claim 18 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Regarding Claim 20, Endsley et al.'471 does not specifically teach the remote receiver is a digital video camera. However, it is notoriously well known in the art for camera devices connected to computers to send data between each other. This allows for the camera to acquire data from the computer (i.e. updating, viewing, etc.) and downloading data transferred from a camera to a computer. (Official Notice)

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Regarding Claim 21, Endsley et al.'471 does not specifically disclose the predetermined rate is 29.97 frames per second. However, it is notoriously well known in the art to transmit signal conforming to standard television signals (29.97 frames per second). By performing this method allows for images to be seen on a monitor desirably. Therefore, it would have been obvious to one having ordinary skill in the art to have the predetermined rate to be 29.97 frames per second.

Regarding Claim 22, Endsley et al.'471 does not specifically disclose the plurality of first frames are 9336 frames, x packets represent 267 packets, the plurality of second frames are 664 frames, and y packets represent 266 packets. However, this is an obvious matter of design choice by the manufacturer at the time of production to manufacture such values with respect to the transmission scheme, for it does not change the scope of the invention.

8. Claims 5, 7, 14, 18, and 20-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii et al.'416.

Regarding Claim 5, Ishii et al.'416 fails to specifically disclose the n, m, x, and y values are integer values. However, one having ordinary skill would recognize that a plurality of frames are known to be natural numerical values (or as the applicant claims to be integer values). It is not practiced in the art to produce, for example 1.04 of a frame. This would not create an adequate picture quality. Although not stated, it would have been obvious to produce frames in integer values as well as packet in integer values as shown in figure 7 to produce a discernable image for

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transmission. Therefore, it would have been to one having ordinary skill in the art to have the n, m, x, and y values to be integer values.

Claim 7 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Claim 14 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Claim 18 is analyzed and discussed with respect to Claim 5. (See rejection of Claim 5 above.)

Regarding Claim 20, Ishii et al.'416 does not specifically teach the remote receiver is a digital video camera. However, it is notoriously well known in the art for camera devices connected to computers to send data between each other. This allows for the camera to acquire data from the computer (i.e. updating, viewing, etc.) and downloading data transferred from a camera to a computer. (Official Notice)

Regarding Claim 21, Ishii et al.'416 does not specifically disclose the predetermined rate is 29.97 frames per second. However, it is notoriously well known in the art to transmit signal conforming to standard television signals (29.97 frames per second). By performing this method allows for images to be seen on a monitor desirably. Therefore, it would have been obvious to one having ordinary skill in the art to have the predetermined rate to be 29.97 frames per second.

Regarding Claim 22, Ishii et al.'416 does not specifically disclose the plurality of first frames are 9336 frames, x packets represent 267 packets, the plurality of second frames are 664

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frames, and y packets represent 266 packets. However, this is an obvious matter of design choice by the manufacturer at the time of production to manufacture such values with respect to the transmission scheme, for it does not change the scope of the invention.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Baker et al. (US 6,006,286)

Hsieh et al. (US 5,969,750) -teaches sending data

bidirectionally (col. 7, lines 42+)

Tanaka et al. (US 6,148,136)

Balram et al. (US 6,034,733)

Kobayashi et al. (US 6,144,411)

Malik (US 6,081,841).

10. Any inquiries concerning this communication from the examiner should be directed to **Jacqueline Wilson** whose telephone number is (703) 308-5080. The examiner can normally be reached Monday-Friday (alternate Fridays off) from 9:00 A.M. to 5:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Wendy Garber**, can be reached at (703) 305-4929. The fax number for this group is (703) 308-6306/6296.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or Faxed to:

(703) 308-9051, (for formal communication intended for entry)

or:


(703) 6306/6296 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, V.A., Sixth Floor (Receptionist).

JBW

November 22, 2000


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